C-5.3 Apply the gas laws to problems concerning changes in pressure, volume, or temperature (including Charles's law, Boyle's law, and the combined gas law).

Revised Taxonomy Level 3.2 C_A Apply procedural knowledge

This concept was not addressed in physical science

It is essential for students to
- Explain Charles' law and Boyle's laws in terms of the kinetic molecular theory
- Solve gas law problems concerning changes in gas pressure, volume, or temperature.

Assessment
The revised taxonomy verb for this indicator is implement (apply) the major focus of assessment will be for students to show that they can "apply a procedure to an unfamiliar task". The knowledge dimension of the indicator, procedural knowledge means "knowledge of subject-specific techniques and methods" In this case the procedure for solving gas law problems using Charles' and Boyle's laws. A key part of the assessment will be for students to show that they can apply the knowledge to a new situation, not just repeat problems which are familiar. This requires that students have a conceptual understanding of gasses in terms of the Kinetic Molecular Theory.